

**Treatment of *Vibrio harveyi*-Infected *Penaeus monodon* Using Alibutbut
(*Tabernaemontana pandacaqui* Poir) Plant Powder.**

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ABSTRACT

The cytotoxicity test of crude methanolic leaf extract using Brine Shrimp Lethality Assay revealed that *Alibuthut* (*Tabernaemontana pandacaqui* Poir.) is safe to use in treating *vibrio*-infected *penaeid* shrimps.

The effectiveness of the *alibuthut* powder against *vibriosis* was examined through the determination of the post-larvae 20 (PL 20) *penaeid* shrimp mortality and the water microbial assay after 48 hours. Percent *penaeid* shrimp mortality (0-6.67%) and microbial count (2.91×10^4 - 3.26×10^4 cfu/mL) of the plant treatments were significantly lower compared to the negative control (no treatment) that exhibited 50% *penaeid* shrimp mortality and a microbial count greater than 6.00×10^4 cfu/mL.

The results of the experiment showed that *Alibuthut* plant powder is indeed effective in controlling *Vibrio harveyi* bacteria.